

Joint Mission Planning System



Col (s) Jake Thorn



Purpose

- PRESENT OVERVIEW OF JMPS
 - GOALS
 - VISION
 - TEAM
 - SCHEDULE
 - QUESTIONS



JMPS Goals

Mission Statement

- Evolve world-class joint mission planning capabilities to support the war-fighter today and support Joint Vision 2010

Objectives

- Scalable framework for MP systems
- Collaborative interservice mission planner
- DII COE / C4ISR Compliance
- Reduce life-cycle costs
- Capability \geq legacy systems
- Smooth migration



Warfighter Gains

- Eliminate “\$1M and a year” improvements
- Simplified COTS Integration
- Flexible vehicle type: Aircraft to tank to ship to patrol
- Single window planning for multiple systems
- Customized user interfaces
- Flexible map display options (2D & 3D)
- Allows collaborative planning
- Focus on interoperability



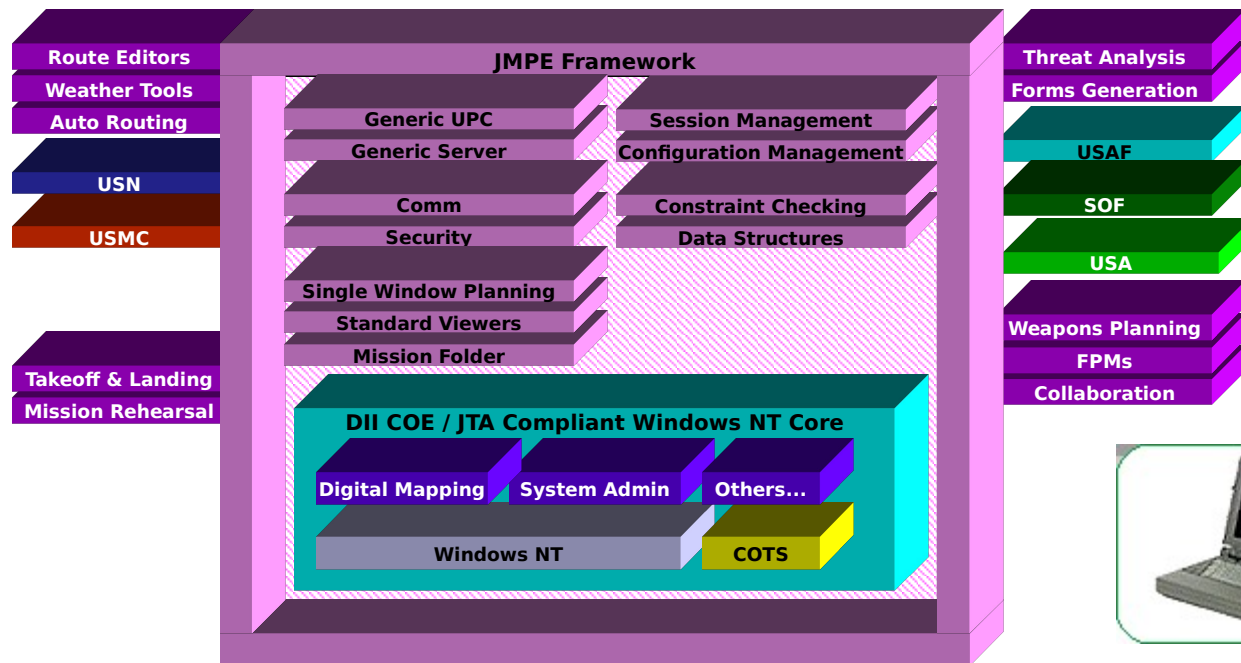
USER CONSTRAINTS

- Must Be PC Based (WINDOWS NT)
- Meet Unit Level Needs
- Match Fielded PFPS functionality
- Build credible development schedule
- Do not exceed current Budget
- Meet threshold aircraft fielding for V2 (F-16/Block 30 and F/A-18)
- Apply Lessons Learned From The Past
MPS/TAMPS/PFPS



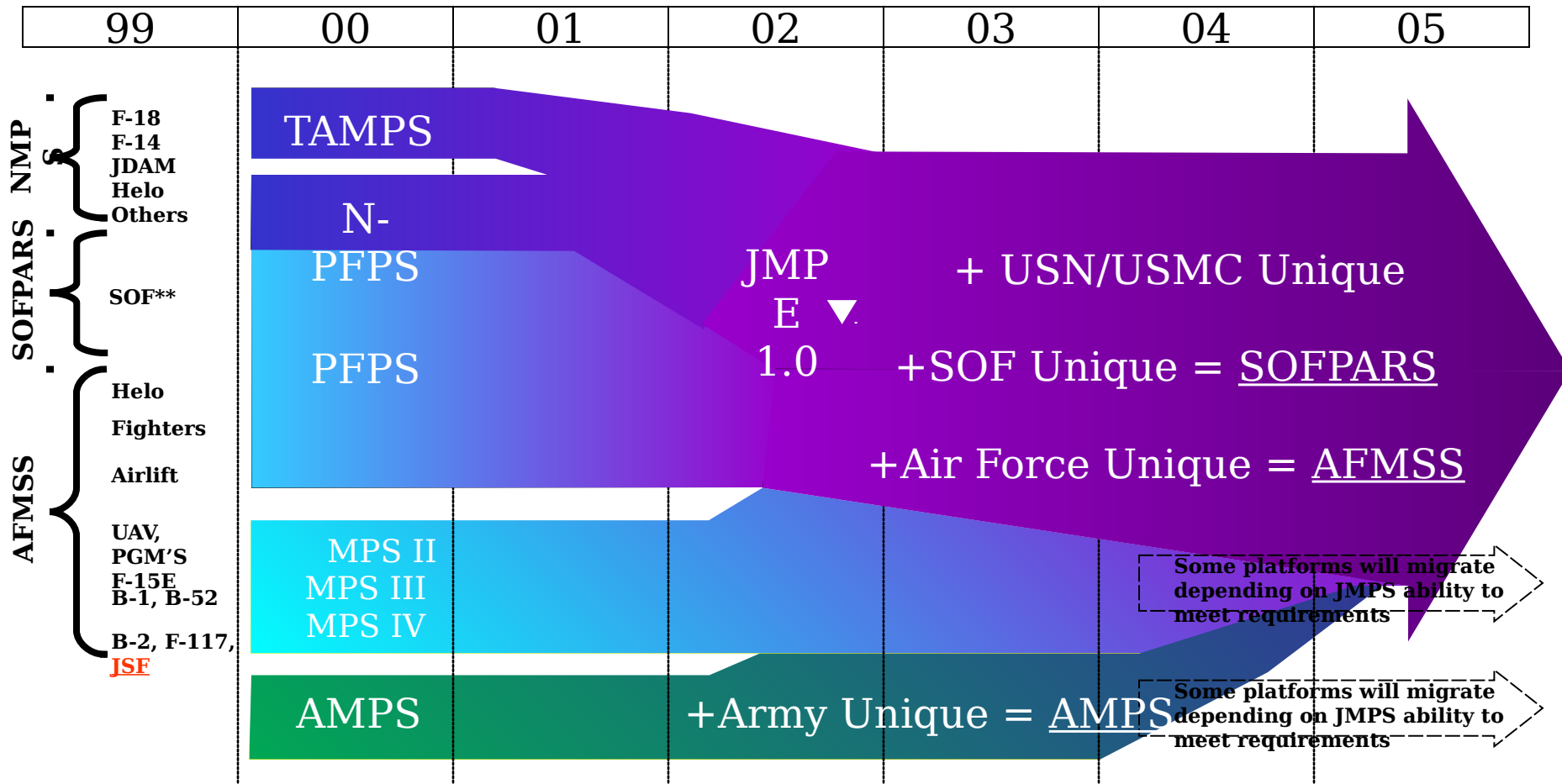
JMPS VISION

JMPE + SERVICE UNIQUE + HARDWARE



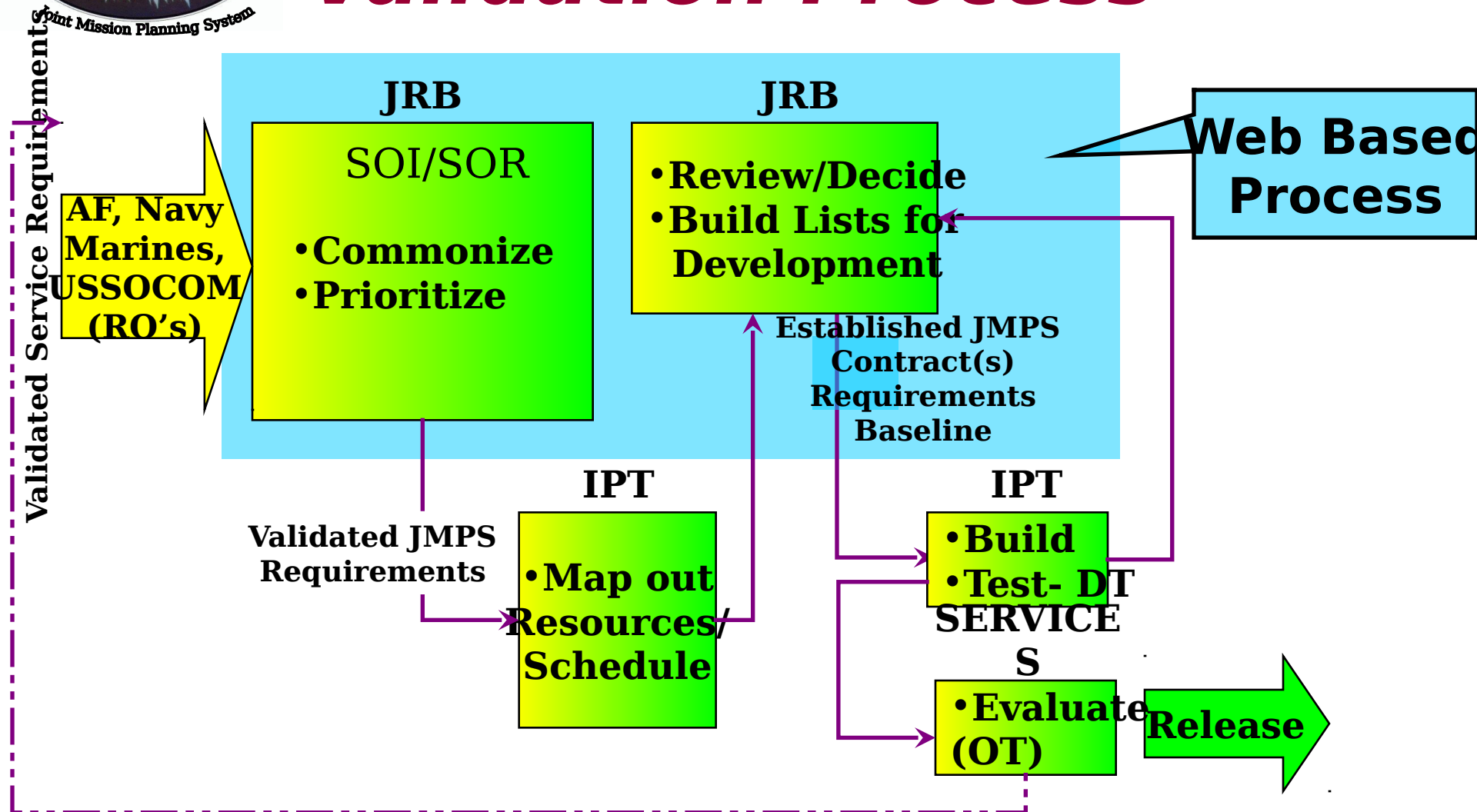


JMPS ROADMAP





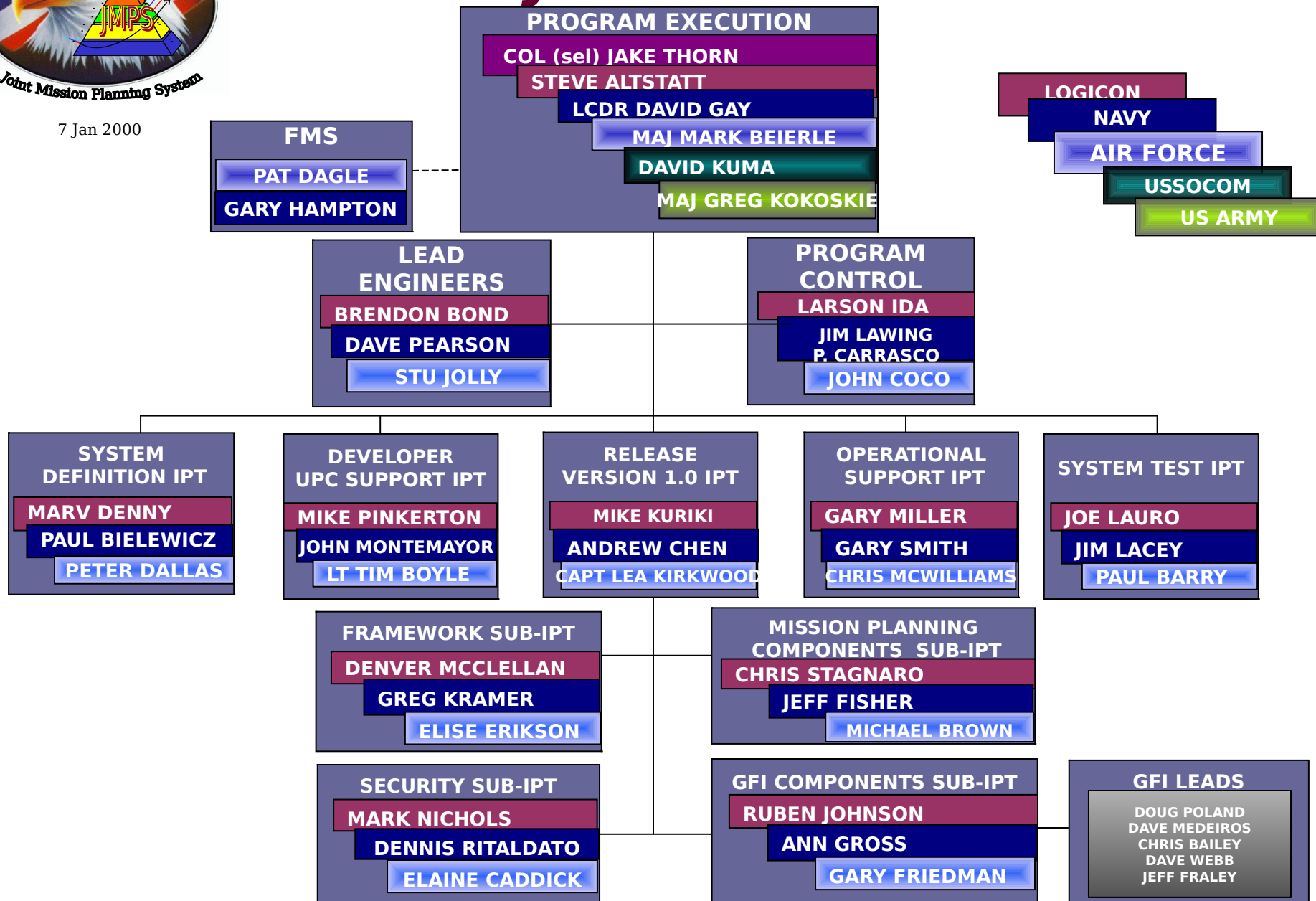
JRB Requirements Validation Process





7 Jan 2000

PHASE II JMPS IPT STRUCTURE





Logicon Team

- Ampersand
- Autometric
- Boeing
- CMI
- Jaycor
- Lockheed Martin
- GFI Members
- Microsoft
- Northrop Grumman
- On-Board Software
- PRB
- Raytheon
- TRW
- 46TS/OGET
- TYBRIN
- GTRI



JMPS Schedule Baseline

38 Month JMPS Program Schedule

- Offers lowest possible JMPS risk while preserving PFPS baseline
- Fits within available funding profile
- Meets JMPS Combat Planner schedule

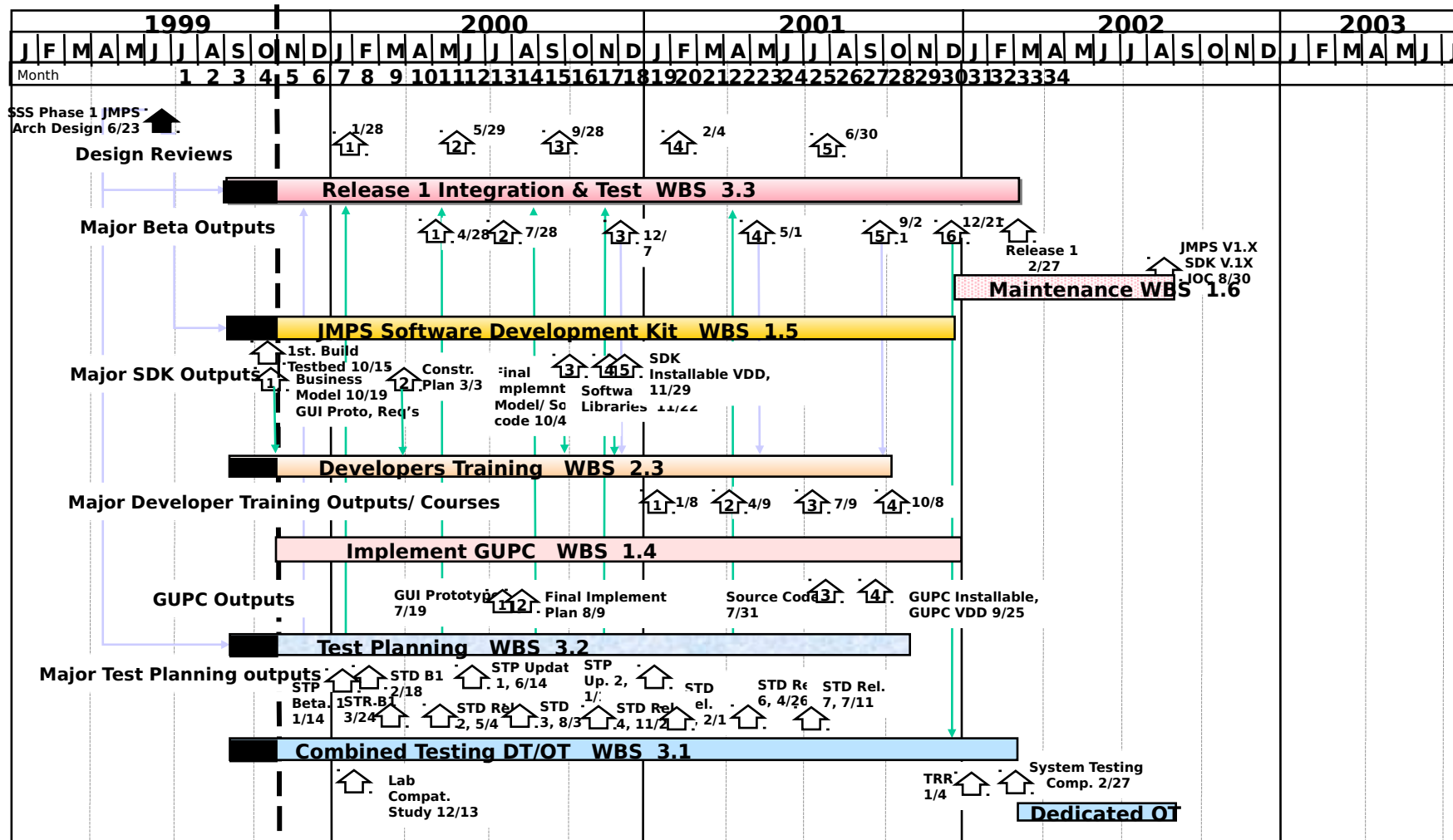
Joint Mission Planning System



Master Schedule



38 Month Schedule-Dated 10/27/99, Status as of: 9/



Notes: This PMS reflects a 38 month schedule to accommodate the integration plan for GFI Components. Refinement to this schedule will continue through the replanning process.

Approved By:
Program Manager
Master Scheduler:

Prepared By:
Gilbert G. Caughman
ORGN: Program Controls 8300

TITLE: JMPS Program Master Schedule
SCHEDULE NO. PMS 448
DATE 10/15/99
PAGE 2 of 2

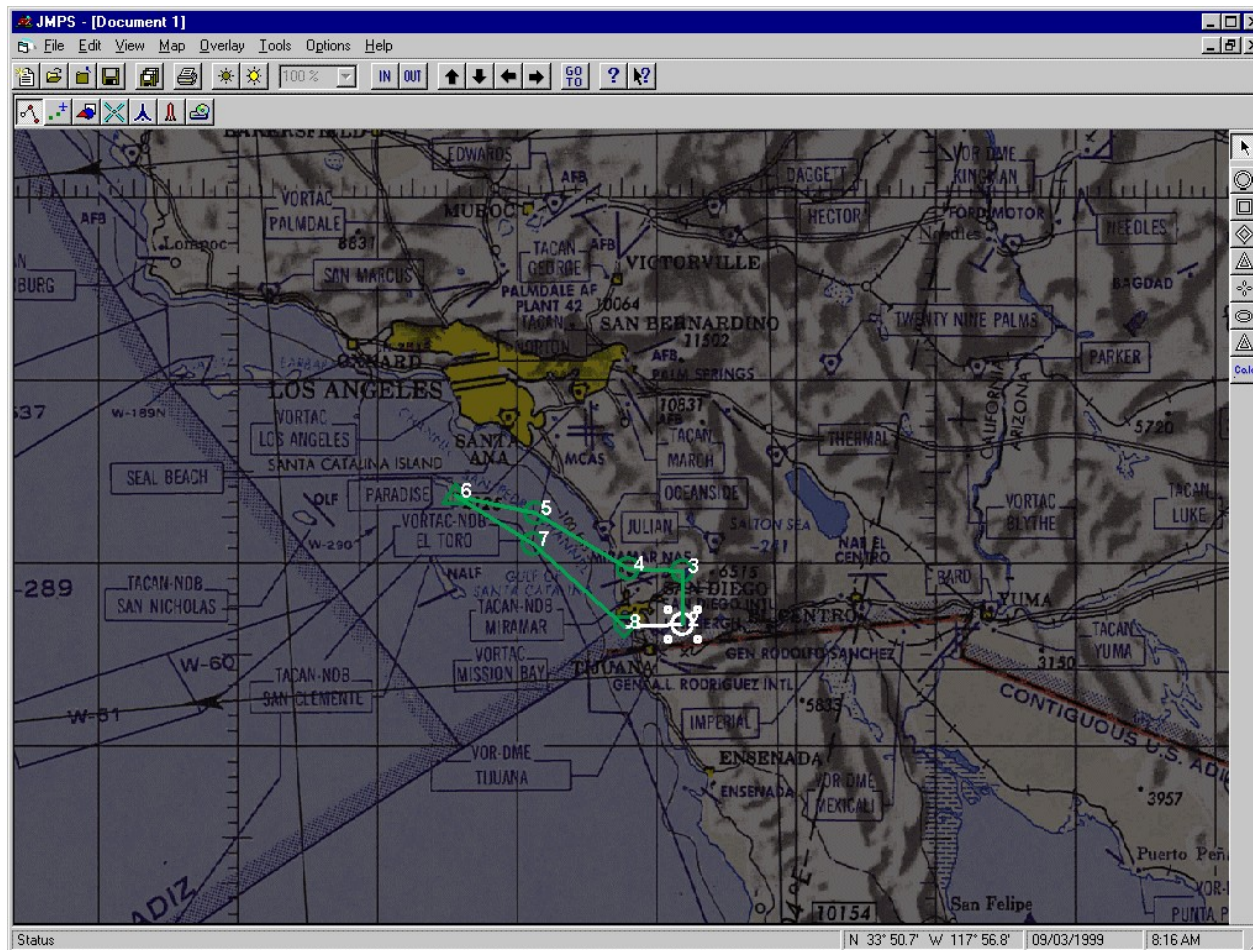


HOT TOPICS

- JMPS vs PFPS
- WHAT MAPS
- WHATS NEW

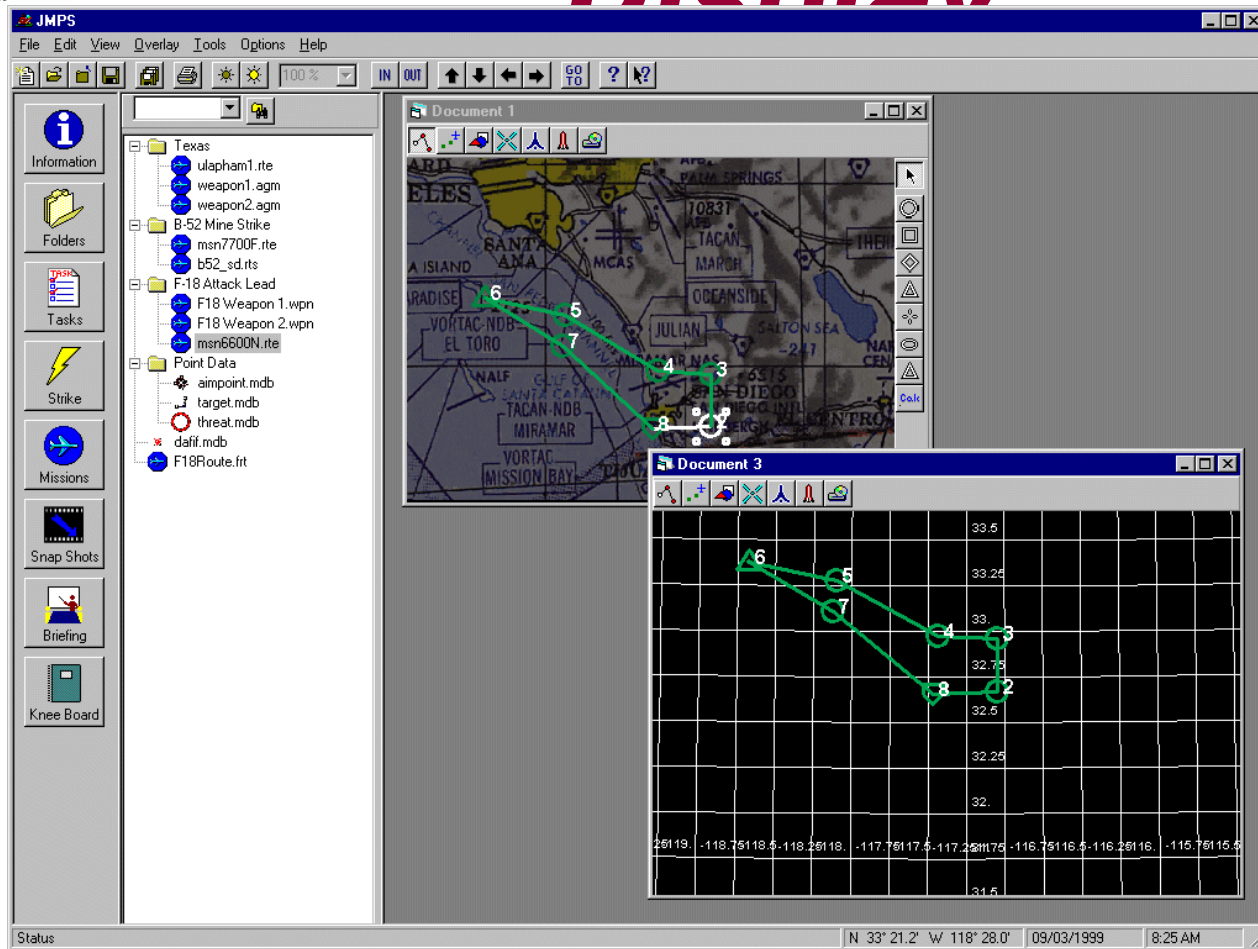


JMPS



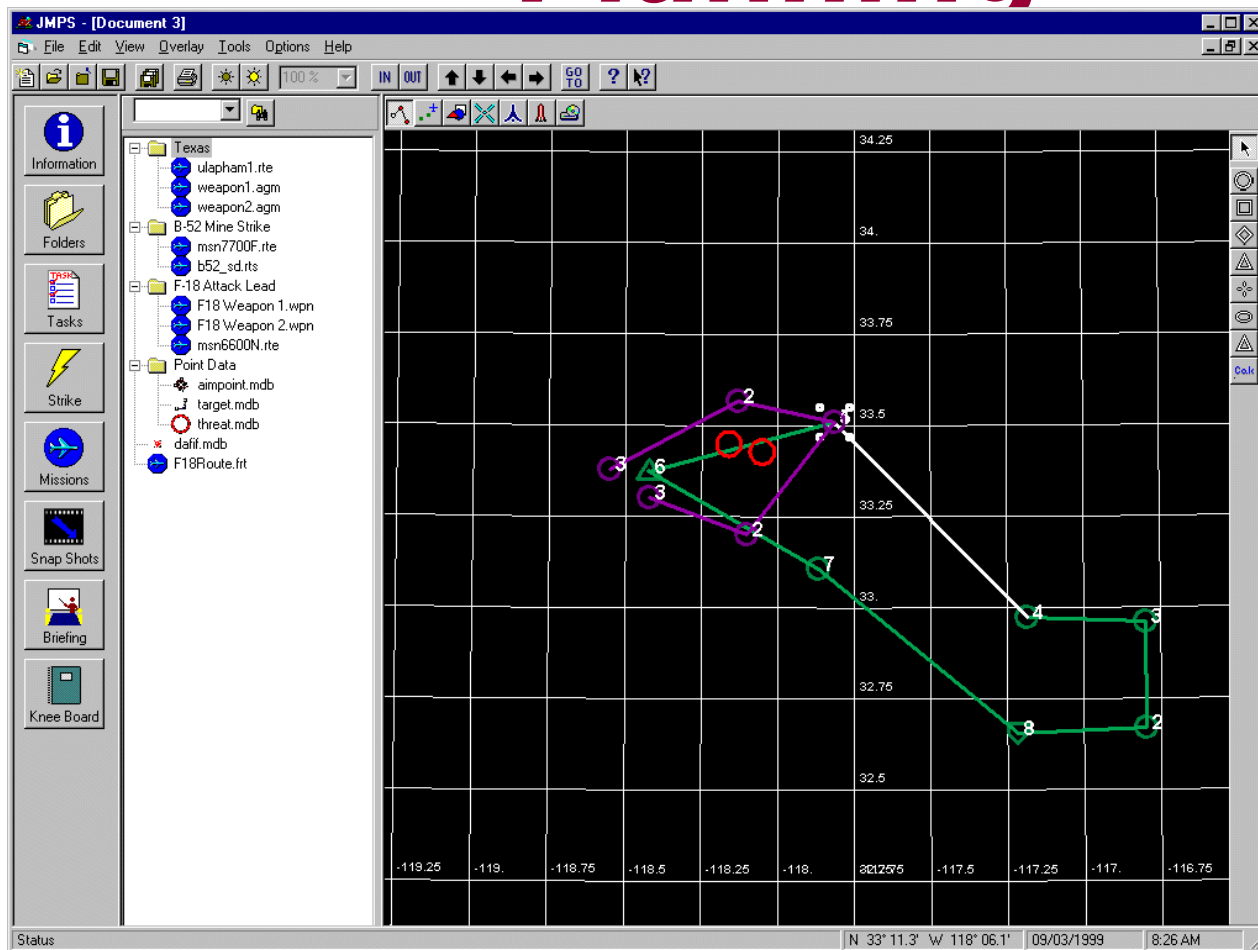


Multiple Window Display



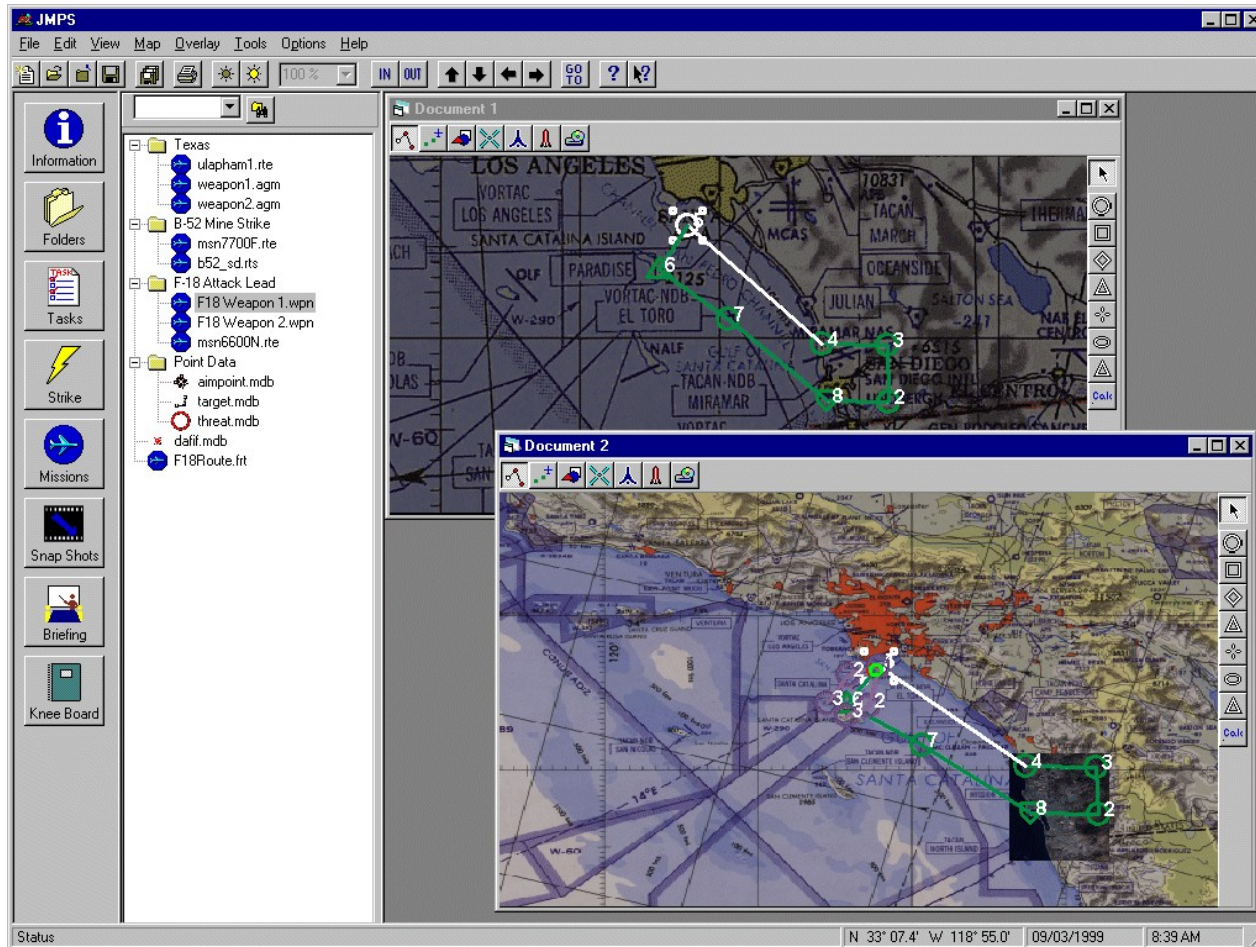


Single Window Planning



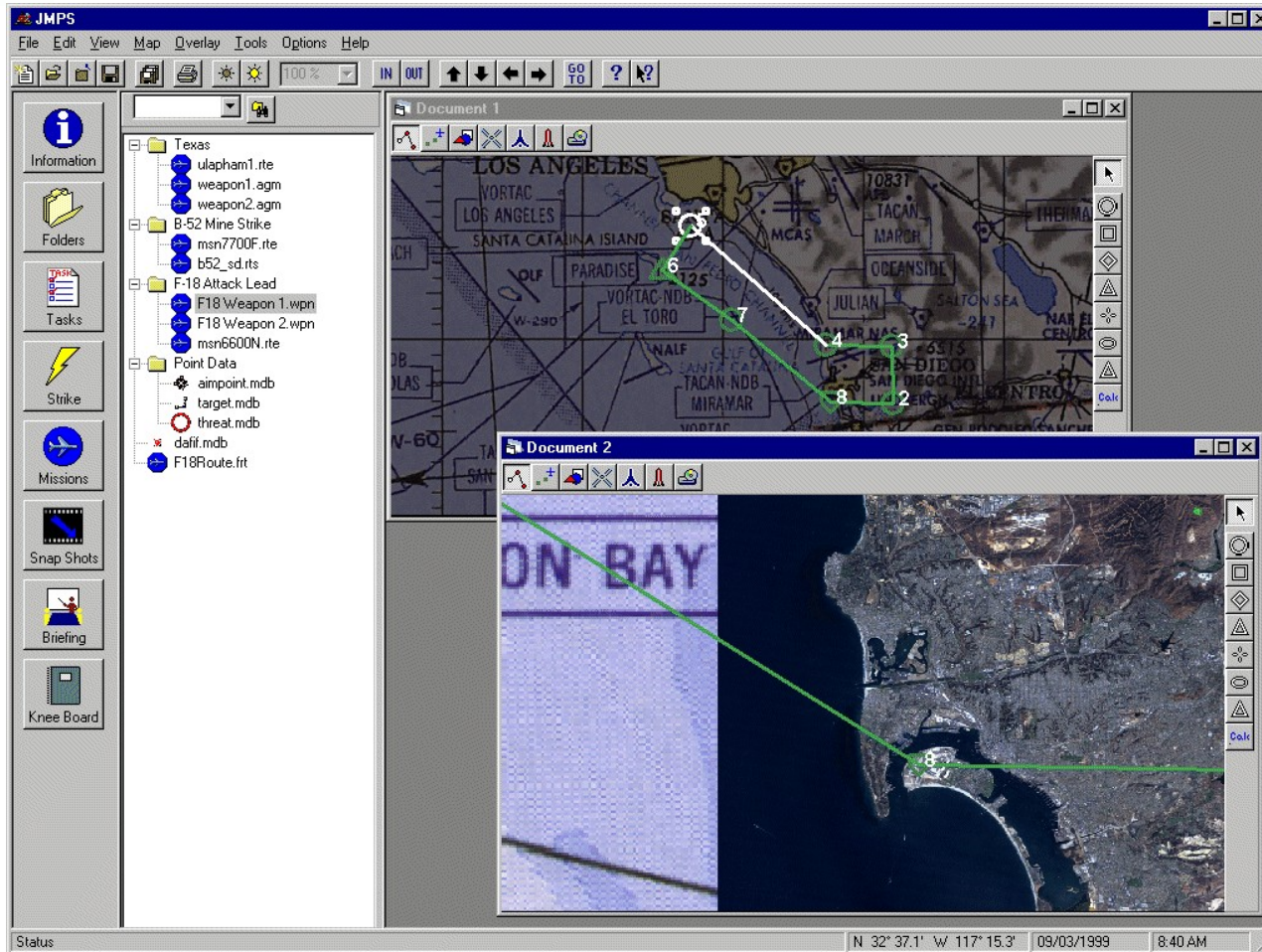


EDO Map



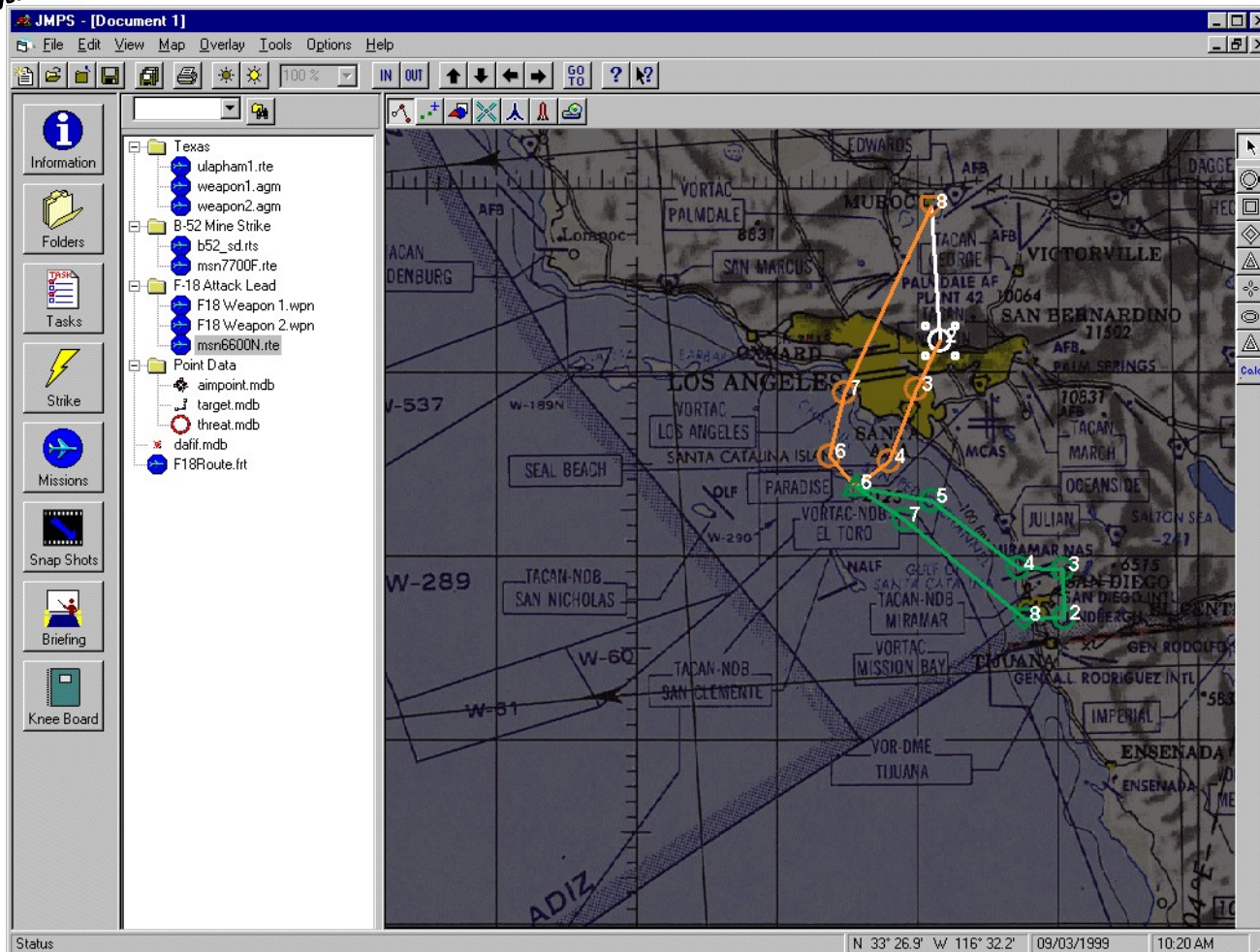


EDO Imagery





Collaboration





Form 70

Microsoft Excel - divert70.frm

Next Previous Zoom Print... Setup... Margins Page Break Preview Close Help

Route Name: D:\PFP\data\ROUTE5\man6800.N.rte Date: 09/03/1999 NAV/D/ATE

CLEARANCE		TAKEOFF, CLIMB, CRUISE DATA						
		DEBRG_AIRCRAFT						
		Cruid: ON	Cruid: SOG					
		Wind: +150	FF: 0					
FREQ USESIES		FOR: MC						
		REB: MC						
DEP FIELD DATA		TOT DIST	TOT ETE					
		00	00:00:00					
			TOT FUEL					
			0000					
TRN	ROUTE	NAV	LAT	LN	DET	CAB	ETE	FUEL
DTM	FDC	CHAN	LO N	MO	LEO	OS	ETA	LEO USED
KIND	ADDL ROUTE	FREQ	VAR	Q(H)	TO T	TWS	TWS	TOT ABNO
ALT	ADDL FDC		ELEV	(TH)				(FF)
TF1			N 32.25.400	000	0.0	506	00:00:00	0
DTM	DEPARTURE		WH17 12.500	000	0.0	506	00:00:00	0
TURN SMO RTEB			0	0.0	506			()
DM			0					
TF2			N 32.30.977	000	0.0	0	00:00:00	0
DTM			WH16 46.171	000	0.0	0	00:00:00	0
TURN SMO RTEB			0	0.0	0			()
DM			0					
TF3			N 32.57.636	000	0.0	0	00:00:00	0
DTM			WH16 47.232	000	0.0	0	00:00:00	0
TURN SMO RTEB			0	0.0	0			()
DM			0					
TF4			N 32.58.042	000	0.0	0	00:00:00	0
DTM			WH17 14.527	000	0.0	0	00:00:00	0
TURN SMO RTEB			0	0.0	0			()
DM			0					
TF5			N 33.37.169	000	0.0	0	00:00:00	0
DTM			WH16 12.513	000	0.0	0	00:00:00	0
TURN SMO RTEB			0	0.0	0			()
DM			0					
TF6			N 33.22.363	000	0.0	506	00:00:00	0
DTM	TARGET		WH16 25.300	000	0.0	506	00:00:00	0
TURN SMO RTEB			0	0.0	506			()
DM			0					
TF7			N 33.06.156	000	0.0	0	00:00:00	0
DTM			WH17 56.688	000	0.0	0	00:00:00	0
TURN SMO RTEB			0	0.0	0			()
DM			0					
TF8			N 32.35.400	000	0.0	506	00:00:00	0
DTM	DESTINATION		WH17 12.500	000	0.0	506	00:00:00	0
TURN SMO RTEB			0	0.0	506			()
DM			0					

AF FORM 70 (Modified) - CFPS Ver. 31 Page 1 of 1

Preview: Page 1 of 1



Print Server: Form 200

Microsoft Excel - frm200_b52.frm

Next Previous Zoom Print... Setup... Margins Page Break Preview Close Help

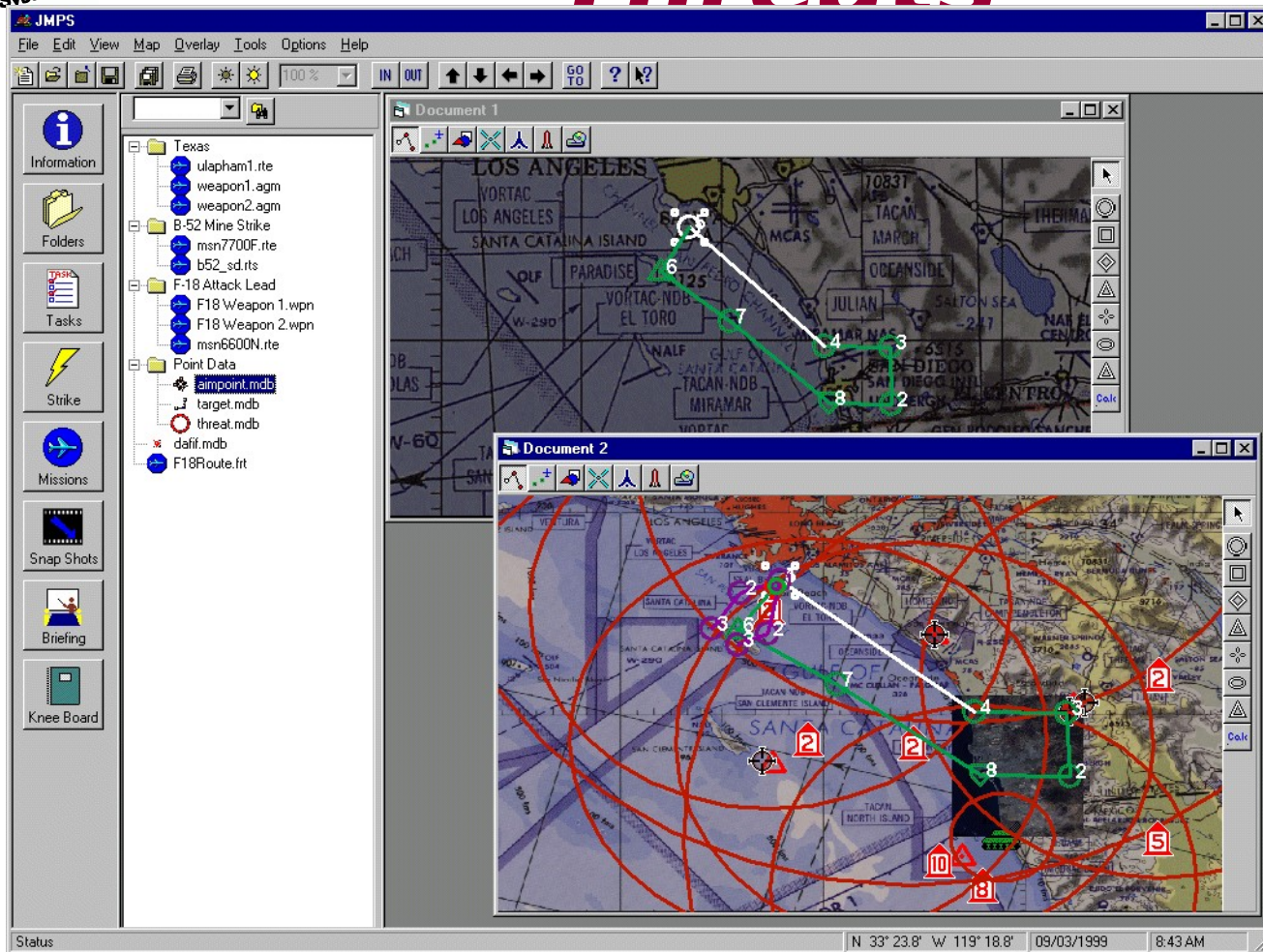
DATE:	SOON:	WING:	CREW:	AVC TYPE:	AC #:									
PILOT:	CO-PILOT:	RN:	NAV:	EW:	CALLSIGN:									
FLIGHT INFORMATION			AIR REFUELING INFORMATION											
Take Off Time (Z):	00+00+00	Fuel Load:	10000	A/R Track:	A/R Altitude: FL									
Land Time (Z):	00+00+00	Fuel Used:	0	Onload:										
Sched Duration:	00+00+00	Act C.G. %:	30000	Tanker Type:										
Remarks:		Act Gross Wt:		Remarks:										
			A/ATACAN:	Y										
VOR ID	RADOME/REMARKS	BANK	WAV	TEMP	CAS	TAS	GDST	TIME	ETA	GROSS FUEL				
TAC	LON	TRK	VAR	MC	DCA	MH	ALT	MACH	GS	ACDST	ACTTIME	ATA	WEIGHT	RMNG
EDWARDS AFB KEDW/A	WN17 53.017	027	14.1E	013	000	013	2302M	0.46	506	0.0	00+00+00		29800	9800
N34 54.283	WN17 53.017	027	14.1E	013	000	013	2302M	0.46	506	0.0	00+00+00		29800	9800
Jewel off	WN17 49.122	185	14.1E	171	000	171	20000M	0.49	506	44.2	00+08+51		29579	9579
N34 10.329	WN17 49.122	185	14.1E	171	000	171	20000M	0.49	506	44.2	00+08+51		29579	9579
N33 54.575	WN17 59.008	185	13.9E	171	000	171	20000M	0.49	506	59.9	00+11+59		29501	9501
N33 30.966	WN18 10.727	202	13.8E	189	000	189	20000M	0.49	506	25.5	00+05+07		29373	9373
TARGET	WN18 25.300	235	13.7E	221	000	221	20000M	0.49	506	14.9	00+02+59		29299	9299
N33 22.383	WN18 25.300	235	13.7E	221	000	221	20000M	0.49	506	100.3	00+20+05		29299	9299
N33 32.670	WN18 36.389	318	13.7E	304	000	304	20000M	0.49	506	13.8	00+02+46		29230	9230
N33 53.439	WN18 29.981	014	13.8E	001	000	001	20000M	0.49	506	114.2	00+22+51		29123	9123
EDWARDS AFB KEDW/A	WN17 53.017	000	0	000	000	000	2302M	506.34	506	21.4	00+04+17		0	0
N34 54.283	WN17 53.017	000	0	000	000	000	2302M	506.34	506	0.0	00+00+00		30000	0

ACC FORM 200 (COMPUTER GENERATED) C:\PFPS\data\ROUTES\B52_sd.rte 09/03/1999 10:21 AM

Preview: Page 1 of 1



Aimpoints, Targets, Threats



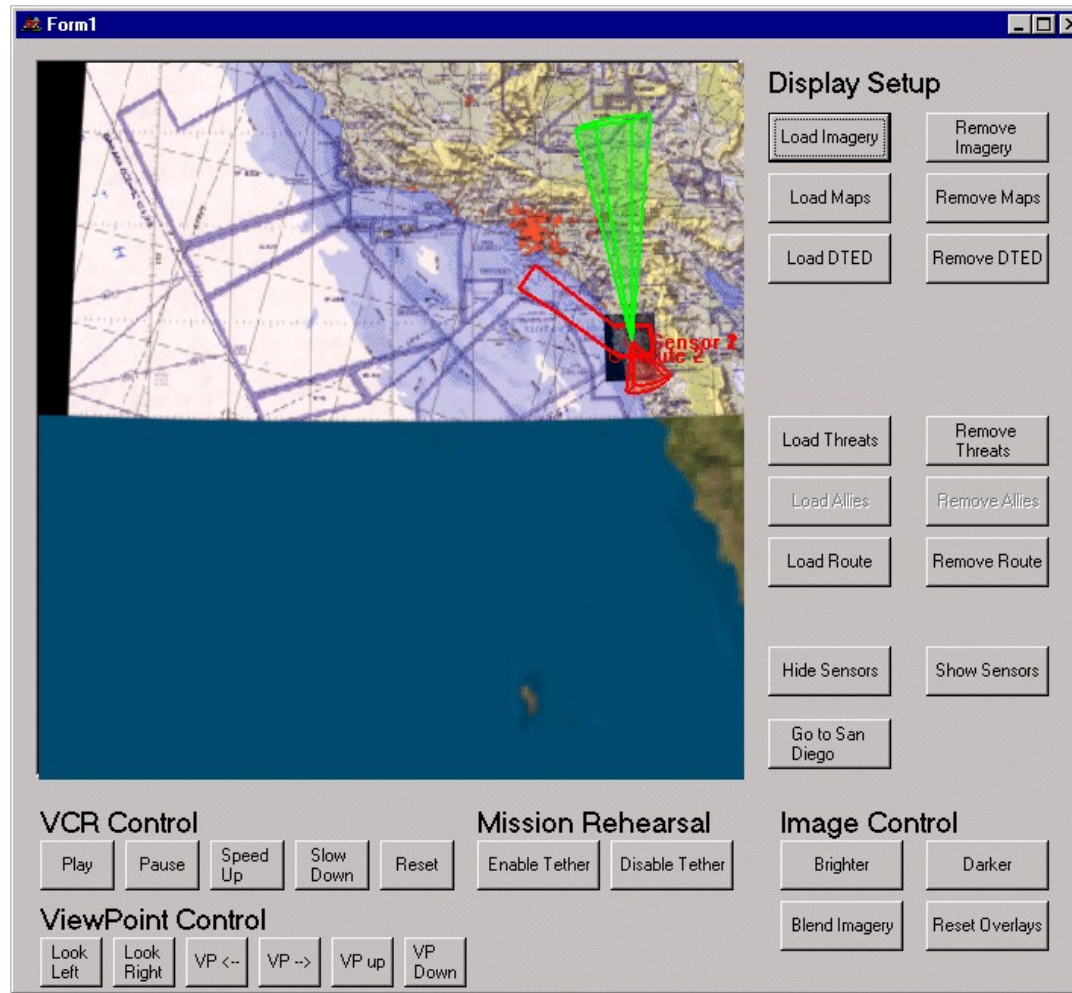


Briefing Charts Start

The screenshot shows the JMPS software interface. The main window is titled 'JMPS' and has a menu bar with 'File', 'Edit', 'View', 'Map', 'Overlay', 'Tools', 'Options', and 'Help'. Below the menu bar is a toolbar with various icons. On the left side, there is a vertical toolbar with icons for 'Information', 'Folders', 'Tasks', 'Strike', 'Missions', 'Snap Shots', 'Briefing', and 'Knee Board'. The main area is divided into two panes. The left pane shows a file tree with folders like 'Texas', 'B-52 Mine Strike', 'F-18 Attack Lead', and 'Point Data'. The right pane shows a map of Southern California with various locations labeled, including Los Angeles, Santa Catalina Island, and San Diego. A green line with numbered points (1-8) is drawn on the map. In the foreground, a 'Document 2' window is open, displaying a briefing slide. The slide has a title 'Return to OSTT Within 3 Days After CWT' and a main title 'Mission Commander Slides (LOGICON JMPS)'. The date '03 Sep, 1999' is shown at the bottom of the slide. The status bar at the bottom of the JMPS window shows coordinates 'N 33° 03.4' W 119° 36.5'', the date '09/03/1999', and the time '8:44 AM'.



Route Rehearsal





FLY -Through

Form1

The main display area shows a 3D perspective view of a rugged, mountainous terrain. A red line, labeled 'Route 2', starts from a point on the horizon and extends vertically down to the ground. The terrain is rendered in shades of brown and tan, with some white patches indicating snow or ice. The sky is a solid dark red color.

Display Setup

Load Imagery	Remove Imagery
Load Maps	Remove Maps
Load DTED	Remove DTED
Load Threats	Remove Threats
Load Allies	Remove Allies
Load Route	Remove Route
Hide Sensors	Show Sensors
Go to San Diego	

VCR Control

Play	Pause	Speed Up	Slow Down	Reset
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Mission Rehearsal

Enable Tether	Disable Tether
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Image Control

Brighter	Darker
Blend Imagery	Reset Overlays

ViewPoint Control

Look Left	Look Right	VP <--	VP -->	VP up	VP Down
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Exit Ramp Triggers

- Cost: Projected greater than 10% overrun
- Schedule: Projected greater than 6 month slip
- Performance: Beta test trends indicate User dissatisfaction (PFPS baseline)



WHAT CAN YOU DO

- Support Mission Planning
 - AFMSS is MPS/PFPS/JMPS
- Spend Time At The Booths
- Without Your Support No Funding
 - PFPS Or Anything Else



QUESTIONS?